USER MANUAL

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Telepresence for Everyone

vu®
telepresence

The Vu TelePresence® system delivers HD Quality Video Conferencing on Low Bandwidth with anyone, anywhere without moving an inch. It provides a suite of features encompassing VirtualFacets™ Compression Technology, Multi Party Conferencing, PC Sharing & Collaboration and Worldwide Vu TelePoint Access.

Please go through this owner's manual to familiarize yourself with this product. We have also listed some primary safety information to provide assistance in maintaining your device.

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Items Checklist

Check whether all the following items have been included before starting.
If anything is missing, please contact your sales representative.

Media Control Unit/Codec

Speaker

Microphone

Wireless Keyboard

Video Camera & Remote

720p HD Ready or 1080p Full HD

Cables

HDMI Cable | FireWire Cable | Power Cable | RCA Cable

Unpacking & Handling Precautions

The following steps should be kept in mind while unpacking and assembling the whole unit:

- All the warnings and handling precautions should be followed strictly.
- Avoid placing the unit on any kind of unstable platform, stand or table that may fall, causing serious injuries as well as damage to the unit.
- The unit should only be operated from the kind of power source specified on the appropriate label by the manufacturer. (AC 110/220 V)

Connecting the Dots

Now that we have established which parts comprise the Vu TelePresence® unit, let's begin wiring it up!

Starting your system

- Media Control Unit/Codec Wiring:
  Connect the power cord to the MCU Codec as shown.

- Speaker Connection:
  Connect the power and auxiliary cable. The auxiliary cable goes into the Microphone.

- Keyboard Connection:
  Connect the Vu wireless keyboard USB dongle to the MCU Codec as shown.

- Microphone Connection:
  Connect the Vu microphone to the MCU Codec as shown using the USB cable.

Video Camera Setup:

- The 1080p HD camera has several connection options, please choose the HDMI connection cable to the Codec and connect the power cable to the power jack. The 1080p camera will be connected to the MCU Codec via HDMI cable only, for HD quality conference.
- The 720p camera derives it's power from the FireWire port (1394 interface) located on the rear side of MCU Codec.

1080p Camera

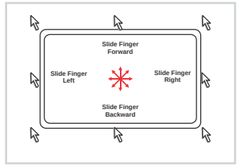
720p Camera

Calibrate Touchpad

The touchpad with its buttons is a pointing device that controls the navigation of the cursor on the monitor screen. It provides basically the same functions as a desktop mouse.

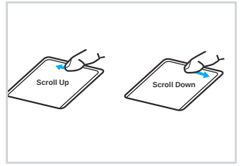
Moving the Cursor:

Place your finger in the center of the touchpad and slide in a direction to move the cursor.



Scrolling:

On the touchpad, slide your finger up or down on the right side to scroll a window up or down simultaneously.



Note: The Wireless keyboard features a sleep mode which powers down the unit to reduce battery consumption after a certain amount of idle time. You can resume working by pressing the ID Fn Link key

located at the bottom left hand side.

Basic Operations:

To start the basic operations:

1 Switch on the power button to the [I] position, to power up the codec.

2 Connect the microphone to the speaker via a standard jack (1/8 inch). The microphone connects to the codec via a USB cable. The microphone can be muted by pressing the switch on the right panel of the microphone.

3 Switch on the speaker by using the ON-OFF switch. The speaker can be muted via the mute sound button.

4 Rotate/pan the video camera to your desired angle using the remote. You can also zoom in/out via the same remote as per your requirement.

Room Lighting Guidelines:

The Vu TelePresence® system will give optimal results when the room is brightly lit with balanced lighting scheme, making sure that the people seated are clearly visible. Make sure the camera is never pointed at a window; this will mask the features of the subject to the caller on the other end.

The following points need to be kept in mind while setting up the room for an optimal TelePresence experience:

- Lighting is crucial. The background should be brighter than the foreground.
- Soften the light.
- Eliminate the unwanted glare from reflections.
- Color adjustments.
- Background adjustments.

Camera Positioning

Position the camera and display unit for optimal eye contact using the wizard provided under Settings.

For optimal eye contact mount the camera on the centre of the upper frame of your monitor screen. Rotate the camera upward or downward, left or right for the best possible angle of view.

Furnishing Guidelines

It is recommended that special attention is given while purchasing furniture and accessories for the Vu TelePresence® system.

The conference table should be "U" shaped or semi-circular having round edges. The material should be 2'' thick wooden ply with cream colored laminate. The table should be 8' long and 2' deep, so that the placement is approx. 5' to 5 ½' from the TV. The conference table should also have the provision for electric supply, internet connectivity, and VoIP phone.

The chief purpose of these furnishing guidelines is to provide the illusion of a continuous table, enabling the participants to experience their clients' presence in the same room.

Network Connectivity

Vu TelePresence® is designed to work at very low bandwidths (700 kbps upstream and downstream for a point to point session) for 720p HD quality. It is important that the user identifies the proper network setup and tweaks the connection for successfully running a meeting. Choosing the right ISP (Internet Service Provider) is crucial for optimal product use.

ISPs should be selected based upon the settings a particular provider implements along with the kind of router and cable/DSL modem, the user has in order to avoid any kind of connection issues.

For example, if the user faces poor video quality, network connectivity having more consistent bandwidth is preferred. In such cases, leased line speeds serve the best quality. In addition, check your firewall configuration as firewalls tend to introduce latencies for real-time audio-video traffic. Having a public IP is preferred though not mandatory.

Vu boot screen:

Power on the Codec to get the Vu logo screen

Network settings:

Click on the network type drop-down to select the type of IP address.
Type in connection name and click on the apply button.

Network diagnostics:

Select the type of network and click on the next button

User settings:

Type in the System name (Vu name), System number (Vu number),System password, Bandwidth assigned to Vu. If you like to use the Vu server click on the yes button, if click on the no button followed by typing the signaling server you ought to use.

Note: Clicking on 'Yes' changes the color to blue likewise clicking on 'No' changes the color to red.

Time settings:

Configure the time zone, date and time and click on the submit button.

Account manager:

On the account manager screen select the type of accounts to be configured and click on the next button.

H.323 account:

Based on the type of account(s) selected in the Account manager screen, you would need to configure the accounts accordingly.

The screen shows the configuration information that needs to be filled in for the H.323 protocol.

Standalone account:

If you have selected the Standalone account, enter the details of the account.

The concept of Zone is similar to that of defining a group in which you could include the Vu unit(s) that would be a part of the group.

If this is the first Vu in the group then the member address needs to be left blank however the following Vu units in the group would have the IP address of any Vu units in the same group.

Standalone advance settings:

In the advanced settings confirm the zone creation and authenticate the information by typing in the Admin password.

SIP account settings:

Type in SIP account details and click on the apply button.

Additional SIP account information can be obtained after SIP registration with a SIP service provider.

SIP account advance settings:

On the Advanced screen, configure the SIP registration information with outbound proxy, Port number, Username and the type of communication and then click on the apply button.

User interface:

On the user interface screen, Vu menu along with Vu details are seen

The Vu menu comprises of Home, Settings, Notifications and Shutdown button.

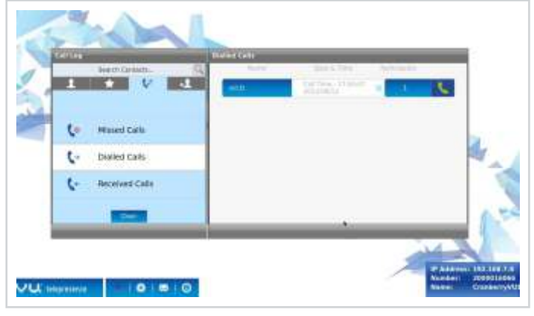
IP address, Vu Number and Vu Name are displayed in Vu details.

Clicking on the Home button displays 'Contact', 'Favorites', 'Call log' and 'Add contact' tabs.

Contacts:

Clicking on the contact tab will display the contact list, "green" telephonic icon seen against the Contact name symbolizes that the Vu is online and likewise "red" for offline Vu units.

To edit the contact details, click on the pencil icon, to delete the contact click on the trash bin.



Favorites:

To add a contact in the favorite list, click on the Yes to favorite in contact details.

Call Log:

Call logs would display the 'Missed', 'Dialed' and 'Received' calls.

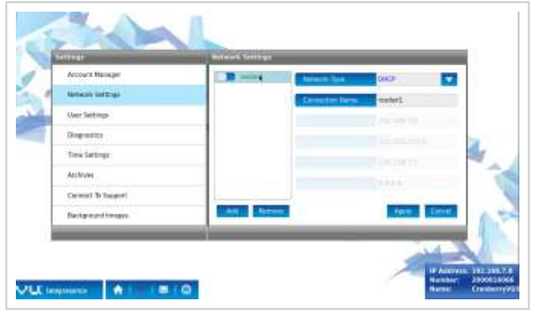
Add Contact:

To add a contact click on the add contact tab, enter the contact details and click on the Add button.

Settings:

This lists the Account Manager, Network settings, User settings, Diagnostics, Time settings, Archives, Connect to support and Background images.

Account Manager: Using account manager you could set accounts for XMPP, H.323, SIP and Standalone signaling modes for an account.



Network settings:

IP protocol details of the connection are entered in this section. It has the capability to add more than one connection, this helps the unit to change networks as and when required.

User settings:

Maximum allowed bandwidth, auto accept calls and type of camera used are some important settings that could be configured here.

Diagnostics:

Diagnostic Tools like ping and iperf could be executed here. Analyze network displays the status of the connection between the Vu, Router and server.

Diagnostics:

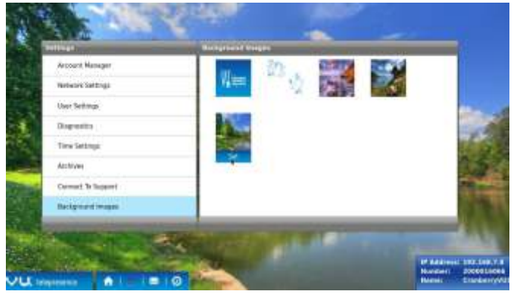
Tools like Ping and iperf could be executed here Analyze network displays the status of the network on the parameters Cable connection, Available network, Available internet, UDP availability, and type of NAT.

Archives:

Recorded session(s) are listed here and can be played with the help of the inbuilt player.

Connect to support:

Typing in the server IP and Port number (Provided by support) will help the support engineers to remotely login to the Vu unit to analyze and fix the reported issue.



Background images:

The Vu Unit's background images can be changed by using the images displayed in this section

The notification button:

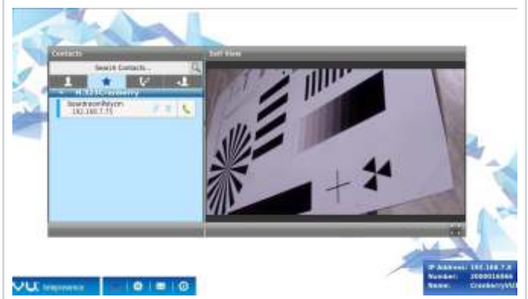
Notifies on any update which is available. The user can then choose to install the updates.

Turn Off button:

Clicking on this button will display Shutdown\Restart \Lock button.

Calling a contact:

Search a contact from contact list or favorites and click on the green colored telephonic icon



Start Vu'ing

Vu call:

On connecting the contact, the active buttons on the screen are Self view, Recording and End conference. Each participant window will have a statistics button. Statistics displays the Upload and Download network utilization, Jitter, Packet loss and the type of Codec used.

Vu Tech Specs

Technology:

Video Specifications/Video Resolutions & Format

- Proprietary VirtualFacets™ Compression Technology in Vu to Vu native mode. Industry standard protocols n interoperability calls.
- Maximum resolutions widescreen 16:9 aspect ratio all resolutions progressive scanning
- All resolutions at 30 frames per second

Audio Standards & Protocols

- HD Wide Band Codec
- Audio Input/Output
- 1 x Mic In
- 1 x Speaker Out

Directory & Address Book

- Up to 1000 local directory entries
- Missed Call Notification
- Received / Dialed Call Directory

Audio Characteristics

- High Definition Audio
- Full duplex for natural conversations
- Echo Cancellation for echo-free calls
- Automatic Gain Control
- Automatic Noise Reduction

Directory

- International Language Support

User Interface

- Intuitive Graphical User Interface

Hardware

Speaker (Optional):
- High End 8CH DAC & 2CH ADC Integrated USB Chipset
- Low Noise Class-D Digital Amplifier
- High Quality Speaker Drive: Left/Right 2" 8W x 2
  Subwoofer 2 1/2" 12W x 1

Microphone
- Crisp, Clear Audio
- Full Duplex
- Acoustic Echo Cancellation
- Noise Cancellation
- 7 feet Pick up Range

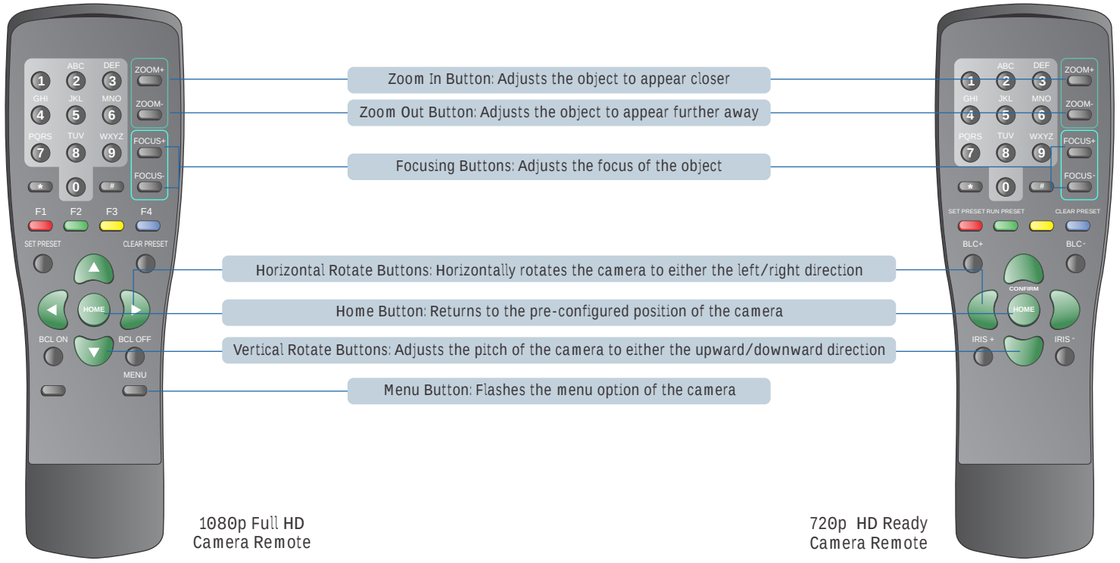
Camera - 720p HD Ready
- 720p at 30fps
- FireWire HD Quality Camera
- Pan Tilt and 65 Degrees FOV
- 3.6x Optical Zoom
- Sensitivity: 1.5 Lux
- High Quality Lens
- Multi-Function Remote Controller

Media Control Unit/Codec
- VirtualFacets™ Compression Technology
- Parallel Processing using Multi-Core Processors
- Multi-Party Conferencing
- Easy PC Screen Sharing across Microsoft Windows© XP/Vista/Windows7
- Recording and Archival of Video Sessions (stores up to 1500 hours of conferences)
- Built-in Presence Capabilities

Keyboard & Mouse
- 123-key Keyboard
- Ergonomic Design

Camera - 1080p Full HD
- 1080p/30fps or 720p/60fps
- HDMI Interface
- Pan Tilt and 55 Degrees FOV
- 10x Optical Zoom
- TV Mountable
- Min Sensitivity: 10 Lux
- Multi-Function Remote Controller

Viewing the Remote Control



1080p Full HD
Camera Remote

720p HD Ready
Camera Remote

Cleaning and Care

Although the Vu TelePresence® system has been designed with the utmost craftsmanship; environmental factors may hinder the performance of the device. To avoid any malfunction from the device, a number of precautions should be taken.

- Unplug the device unit from the electrical outlet before cleaning.
- Clean your device with a soft cloth dampened with water. Do not use liquid or aerosol cleaners, which may contain flammable substances.
- Do not use accessories not recommended by the manufacturers since they may be dangerous.
- Ensure that the contacts between the codec, speakers, microphone and camera are all properly aligned.
- Keep away the device unit from any dusty places to avoid damage to the components.
- Ensure that the cleaning of the camera lens is done periodically.

SAFETY: General

- Do not attempt to service the device yourself unless you are a trained service technician. Always follow installation instructions closely.
- If you use an extension power cable with your AC adapter, ensure that the total ampere rating of the products plugged in to the extension power cable does not exceed the ampere rating of the extension cable.
- Do not push objects into air vents or openings of your device. Doing so can cause fire or electric shock by shorting out interior components.
- Keep your device away from radiators and heat sources. Also, do not block cooling vents. Avoid placing loose papers underneath your device; do not place your device in a closed-in wall unit or on a bed, sofa, or rug.
- To help avoid the potential hazard of electric shock, do not connect or disconnect any cables or perform maintenance or reconfiguration of this product during an electrical storm.
- Do not use your device during an electrical storm.

Product Picture

vu®
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"With Vu TelePresence®,
the whole world is your office."